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OM protein - protein search, using sw model

Run on: November 29, 2002, 11:40:52 ; Search time 12.679 Seconds
(without alignments)
916.637 Million cell updates/sec

Title: US-09-609-146-25

Perfect score: 2076

Sequence: 1 MGKLENASWIHDPLMKYLS.....QSSIHNTLTAPCAGEVP 395

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- Issued Patents AA.*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pap.*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pap.*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pap.*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pap.*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pap.*
6: /cgn2_6/ptodata/1/iaa/backfiles.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1640.5	79.0	415	4	US-09-545-944-2
2	465.5	22.4	364	4	US-09-077-675A-16
3	465.5	22.4	364	4	US-09-077-675A-3
4	463.5	22.3	361	4	US-09-077-675A-8
5	463.5	22.3	366	4	US-09-077-675A-13
6	437	21.1	410	3	US-08-858-876A-2
7	437	21.1	410	4	US-09-472-880-2
8	433.5	20.9	353	1	US-08-118-270-45
9	433.5	20.9	353	5	PCT-US93-08528-45
10	430.5	20.7	416	3	US-08-858-876A-4
11	430.5	20.7	416	4	US-09-472-880-4
12	427	20.6	410	4	US-09-200-090-2
13	423	20.4	302	4	US-09-077-675A-2
14	421.5	20.3	302	4	US-09-077-675A-7
15	416	20.0	398	2	US-08-288-663A-1
16	412	19.8	393	1	US-07-629-1041-3
17	401.5	19.3	391	4	US-09-200-090-4
18	400.5	19.3	400	3	US-08-889-108-8
19	400.5	19.3	400	5	PCT-US94-10358-8
20	399.5	19.2	384	2	US-08-103-170-10
21	396.5	19.1	400	4	US-09-351-198-2
22	396.5	19.1	400	4	US-09-113-426-2
23	396.5	19.1	415	4	US-08-405-271A-20
24	395.5	19.1	400	4	US-08-188-275A-2
25	392	18.9	341	1	US-08-118-270-48
26	392	18.9	341	5	PCT-US93-08528-48
27	389.5	18.8	319	3	US-08-832-399-2

28	389.5	18.8	319	4	US-09-372-498-2	Sequence 2, Appli
29	388.5	18.7	398	2	US-08-288-663A-15	Sequence 15, Appli
30	380.5	18.3	411	1	US-07-937-609-21	Sequence 21, Appli
31	380.5	18.3	411	4	US-08-029-170-21	Sequence 2, Appli
32	380	18.3	391	2	US-08-454-549-3	Sequence 3, Appli
33	380	18.3	391	3	US-08-454-552-3	Sequence 3, Appli
34	380	18.3	398	1	US-08-149-093A-5	Sequence 5, Appli
35	380	18.3	398	2	US-08-911-245-5	Sequence 5, Appli
36	380	18.3	398	3	US-08-889-108-2	Sequence 2, Appli
37	380	18.3	398	4	US-08-120-601B-2	Sequence 2, Appli
38	380	18.3	398	4	US-08-188-275A-3	Sequence 3, Appli
39	380	18.3	398	4	US-08-387-707-16	Sequence 16, Appli
40	380	18.3	398	4	US-09-510-473-5	Sequence 5, Appli
41	380	18.3	398	4	US-09-351-198-3	Sequence 3, Appli
42	380	18.3	398	4	US-09-113-426-3	Sequence 3, Appli
43	380	18.3	398	4	US-08-405-271A-16	Sequence 16, Appli
44	380	18.3	398	5	PCT-US94-10358-2	Sequence 2, Appli
45	374	18.0	391	3	US-08-676-351-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-09-545-944-2
; Sequence 2, Application US/09545944
; Patent No. 6461836
; GENERAL INFORMATION:
; APPLICANT: AMES, ROBERT
; APPLICANT: ELSHOURBAGY, NABIL
; APPLICANT: MICHALOVICH, DAVID
; APPLICANT: SARAU, HENRY
; APPLICANT: SHABON, USMAN
; APPLICANT: VAWTER, LISA
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM RECEPTOR
; TITLE OF INVENTION: (AXOR34) AND SCREENING METHODS THEREOF
; FILE REFERENCE: GP70657-1
; CURRENT APPLICATION NUMBER: US/09/545,944
; CURRENT FILING DATE: 2000-04-10
; PRIOR APPLICATION NUMBER: US 09/435,384
; PRIOR FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 415
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
US-09-545-944-2

Query Match	79.0%	Score	1640.5	DB	4	Length	415
Best Local Similarity	79.1%	Pred. No.	1.9e-127				
Matches	311	Conservative	35	Mismatches	42	Indels	5
Gaps	1						
Qy	1	MGKLENASWIH-----DPLMKYLSNTEYLAHLGCPKRSDLSLPVSVAIALIFLVGMGN	55				
Db	4	MEKLQNASWIYQQKLEDFPQKHLNSTEYLAFLCGPRASHFFLPVSVVYVIFVVGIGN	63				
Qy	56	LLVCMVIVRHOTLKTPTNYLFLSAVSDLLVLLGMPLEIYEMMHNYPLFGPVCYFKT	115				
Db	64	VLVCLVLQHQMKPTNYLFLSAVSDLLVLLGMPLEIYEMMHNYPLFGPVCYFKT	123				
Qy	116	ALFETVCFASILSVTVSVERYVAIVHPFRAKLESTRRRALRIILSVMSFVSFLPNTS	175				
Db	124	ALFETVCFASILSVTVSVERYVAIVHPFRAKLESTRRRALRIILSVMSFVSFLPNTS	183				
Qy	176	IHGKFKQHFPGNGSSVPGSATCTVTKPMVYNIITQATSFLLPMTLSVLYYLMGURL	235				
Db	184	IHGKFKFYFPGNSLVPGSATCTVIKPMWIYFIQVTSFLFYLLPMTVISLYYLMALRL	243				
Qy	236	KRDESLEANKVAVNIHRPSKSVTKMLFVLVLFVAICWTPFHVDRLFPSFVEEWTESLAA	295				
Db	244	KDKSLEADGNANIQRCKSVNRMFLVLVLFVAICWTPFHVDRLFPSFVEEWTESLAA	303				

QY 160 SLVWSFSVVSFLPNTSIHGKIFQHFPGSSVPGSATCTVTK-----PMWVYNLI 209
Db 152 LVIVAVAFCSAGPIFVLGVGEHD---NGTDPDRTNECRATEFAVRSGLLTVWVWV----- 203
QY 210 QATSFILFYLPMTLISVLYLMGLRLKRDESLAANKAVNIHRPSRKSVTKMLFVLVLVF 269
Db 204 ---SSVFFFLPVFCLTVLYSLIGRLWRKRGEA-AVGSSLRDQNHKTQVKMLAVVVF 259
QY 270 AICWTPFHVDRLFFS-FVEWTESLAAPNLIHVGVFFVYLSAVNPPIIYNLSRRRRA 328
Db 260 ILCWLPFHVGRVLFSGKLEPGSVEIAQISQYCNLVSVFLVFLYLSAAINPILYNIMSKKRV 319
QY 329 A 329
Db 320 A 320
RESULT 4
US-09-077-675A-8
; Sequence 8, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077.675A
; FILING DATE: 3-JUN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 361 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-8
Query Match 22.3%; Score 463.5; DB 4; Length 361;
Best Local Similarity 34.9%; Pred. No. 9.8e-31;
Matches 106; Conservative 66; Mismatches 107; Indels 25; Gaps 7;
QY 40 VSVAVALIFLVGMGNLVCWVIVRHOTLKTPTNYLFSLAVSDLLVLLGLGMPLEIYEMW 99
Db 41 VTATCVALLFVVGVIAGNLTLMLVSVRSFRLRTTNYLSMAFSDDLIFLC-MPLDLVRLW 99

QY 100 HNYPLFGPVCCYFKTALFETVCFASILSVTTVSVERYVAIVHFRAKLESTRRRALRIL 159
Db 100 QYRWNFGDILLCKLFQFVSESCYATVLTITALSVERYFAICFPLRAKVVVTKGRVKLVI 159
QY 160 SLVWSFSVVSFLPNTSIHGKIFQHFPGSSVPGSATC-----TGTKPMVYNLI 209
Db 160 FVIVAVAFCSAGPIFVLGVGEH---NGTDPDRTNECRPTFEFAVRSGLLTVWVWV----- 211
QY 210 QATSFILFYLPMTLISVLYLMGLRLKRDESLAANKAVNIHRPSRKSVTKMLFVLVLVF 269
Db 212 ---SSVFFFLPVFCLTVLYSLIGRLWRKRGEA-VVGASLRDQNHKTQVKMLAVVVF 267
QY 270 AICWTPFHVDRLFFS-FVEWTESLAAPNLIHVGVFFVYLSAVNPPIIYNLSRRRRA 327
Db 268 ILCWLPFHVGRVLFSGKLEPGSVEIAQISQYCNLVSVFLVFLYLSAAINPILYNIMSKKRV 327
QY 328 AAFR 331
Db 328 AVFR 331
RESULT 5
US-09-077-675A-13
; Sequence 13, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077.675A
; FILING DATE: 3-JUN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 366 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-13
Query Match 22.3%; Score 463.5; DB 4; Length 366;
Best Local Similarity 34.9%; Pred. No. 9.9e-31;
Matches 106; Conservative 66; Mismatches 107; Indels 25; Gaps 7;

[illegible]

RESULT 8

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US-08-118-270-45
; Sequence 45, Application US/08118270
; Patent No. 5508384
; GENERAL INFORMATION:
; APPLICANT: Murphy, Randall B.
; APPLICANT: Schuster, David I.
; TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
; TITLE OF INVENTION: RECEPTORS, AND COMPOSITIONS AND METHODS THEREOF
; NUMBER OF SEQUENCES: 348
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/118,270
; FILING DATE: 09-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/943,236
; FILING DATE: 10-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, Kevin G.
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: MURPHY-2A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 353 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-118-270-45

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Query Match 20.9%; Score 433.5; DB 1; Length 353;
Best Local Similarity 30.1%; Pred. No. 2.8e-28;
Matches 102; Conservative 71; Mismatches 103; Indels 63; Gaps 12;

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Qy 40 VSVAYALIFLVGVGNLLVCMVIRH---QTLKTPNTYYLFSLSYSDLLVLLGLMPLEIY 96
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Db	4	VTAIYLALFVVGTVGNSVTAFTLARKKSLOSLOSTVHYHLLSLALSDLLILLM---VELY 60
Qy	97	E-MWHNYPFYLPGPVGC---YFKTALPETVCFASILSVTTVSVSRYVAIVHPFRAKLESTR 152
Db	61	NFIWH-HPWAFGAGDCGGYYF--LRDACTATLANVASLSVRYLAICHPPFAKTLMSR 116
Qy	153	RRALRIILSLVMSFSVFSLPNTSIHGFKFOHPNGSGSVPGSATCTVTKPMWVNLIIQAT 212
Db	117	SRTKFTSATAWLASALUAIEMLFTLGL--QNRSGDTHPGGLVCTPIVDVATVKVVIQVN 174
Qy	213	SFLFYILPMTLIISVLYXLMGLRLKRDSELEANKVAVNIHR-----252
Db	175	TFMSFLPEMLVVISIL-----NTVIANKLTVMVHQAPQGRVCTVGTGHNGLHST 223
Qy	253	-----PSRKSVTK---MLFLVLVLVFAICWTPEPHVDRLFFESVEEWTESLAAVNLIHV 302
Db	224	FNMRIEGRVQALRHGVILVRVAVIAFVVCWLPY----LCYISDEQWRFLPDFYHFYFM 279
Qy	303	VSGVFFYLLSAAVPIIYNLLSRFRFAAFRNVSPTSCKWC 341
Db	280	LTNALFVVSAINPIYLLVNSANFROVFLSTLA--CLFC 316

RESULT 9

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PCT-US93-08528-45
; Sequence 45, Application PC/TUS9308528
; GENERAL INFORMATION:
; APPLICANT: New York University
; TITLE OF INVENTION: POLYPEPTIDES OF G-COUPLED PROTEIN
; NUMBER OF SEQUENCES: 348
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK
; STREET: 419 Seventh Street, N.W., Suite 300
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/08528
; FILING DATE: 09-SEP-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/943,236
; FILING DATE: 10-SEP-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Townsend, Kevin G.
; REGISTRATION NUMBER: 34,033
; REFERENCE/DOCKET NUMBER: MURPHY-2 PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-628-5197
; TELEFAX: 202-737-3528
; TELEX: 248633
; INFORMATION FOR SEQ ID NO: 45:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 353 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
PCT-US93-08528-45

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Query Match      20.9%; Score 433.5; DB 5; Length 353;
Best Local Similarity 30.1%; Pred. No. 2.8e-28;
Matches 102; Conservative 71; Mismatches 103; Indels 63; Gaps 12;

QY 40 VSVAYALIFLVGVNGNLLVCWIVRH---QTLKPTNYVLFSLAVSDLLVLLGLMPLIY 96
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 4 VTAYLALFVGVTVGNSTVFTLARKKSLOSSTVHYHSSLSALSDLLILW--VELY 60
      | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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Db	99	YPWVGDLGCRGYF----	VRELCA	YATVLS	VASLS	AERCLAV	COPLAR	ARRLLP	PRTRRL	155											
Qy	159	LSLWMSFVVPFSL	ENTS	IHG	KFO	-HP	NGSS	VP	GS	TCTV	KPMV	VY	NLI	I	QAT	S	F	LE	Y	217	
Db	156	LSLWVASLGLAL	PM	AV	IM	QK	HE	VS	AD	GE	PE	PS	AR	CV	CT	VS	RV	AT	LQ	V	215
Qy	218	ILPMTLLSVL----	Y	Y	L	M	G	-----	---	L	L	K	E	---	---	---	---	---	---	---	239
Db	216	ALPLALTAFL	NG	IT	V	N	H	M	A	L	Y	S	Q	V	P	S	A	S	A	Q	275
Qy	240	---	S	L	E	A	N	K	V	A	N	I	H	R	S	K	S	V	T	K	294
Db	276	VQASLV	R	H	K	D	A	S	Q	I	R	---	S	L	O	S	A	Q	V	L	333
Qy	295	AVENLI	H	V	S	G	V	F	L	S	A	N	P	I	I	N	L	L	S	R	348
Db	334	DFHY	F	T	Y	T	N	T	L	E	P	V	S	A	T	P	I	I	N	A	392

RESULT 12

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US-09-200-090-2
; Sequence 2, Application US/09200090
; Patent No. 6420137
; GENERAL INFORMATION:
; APPLICANT: Strand, Joann
; APPLICANT: Hadcock, John R.
; TITLE OF INVENTION: No. 6420137el cDNA Encoding The Long and Short
; TITLE OF INVENTION: Forms of The Human Neurotensin subtype 2 Receptor
; FILE REFERENCE: 0630/0E792
; CURRENT APPLICATION NUMBER: US/09/200.090
; CURRENT FILING DATE: 1998-11-25
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 410
; TYPE: PRT
; ORGANISM: human
US-09-200-090-2

Query Match          20.6%; Score 427; DB 4; Length 410;
Best Local Similarity 29.9%; Pred.No. 1.1e-27;
Matches 107; Conservative 71; Mismatches 126; Indels 54; Gaps 11

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RESULT 13

US-09-077-675A-2
; Sequence 2, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:

DEC 11 1964

US-09-077-675A-7
; Sequence 7, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:

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? APPLICANT:  Pai, Lee-Yuh
? APPLICANT:  Feighner, Scott C.
? APPLICANT:  Howard, Andrew D.
? APPLICANT:  Pong, Sheng-Shung
? APPLICANT:  Van Der Ploeg, Leonardus H.T.
? TITLE OF INVENTION:  RECEPTOR ASSAY
? NUMBER OF SEQUENCES:  16
? CORRESPONDENCE ADDRESS:
? ADDRESSEE:  Merck & Co., Inc.
? STREET:  P.O. Box 2000, 126 E. Lincoln Ave.
? CITY:  Rahway
? STATE:  NJ
? COUNTRY:  USA
? ZIP:  07065-0900
? COMPUTER READABLE FORM:
? MEDIUM TYPE:  Diskette
? COMPUTER:  IBM Compatible
? OPERATING SYSTEM:  DOS
? SOFTWARE:  FastSeq for Windows Version 2.0
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER:  US/09/077,675A
? FILING DATE:  3-JUN-1998
? CLASSIFICATION:
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER:
? FILING DATE:
? ATTORNEY/AGENT INFORMATION:
? NAME:  Cocuzzo, Anna L.
? REGISTRATION NUMBER:  42,452
? REFERENCE/DOCKET NUMBER:  19590P
? TELECOMMUNICATION INFORMATION:
? TELEPHONE:  732-594-1273
? TELEFAX:  732-594-4720
? TELEX:
? INFORMATION FOR SEQ ID NO:  2:
? SEQUENCE CHARACTERISTICS:
? LENGTH:  302 amino acids
? TYPE:  amino acid
? STRANDEDNESS:  single
? TOPOLOGY:  linear
? MOLECULE TYPE:  protein
?
? US-09-077-675A-2
?
? Query Match 20.4%; Score 423; DB 4; Length 302;
? Best Local Similarity 33.8%; Pred. No. 1.7e-27;
? Matches 95; Conservative 64; Mismatches 98; Indels 24; Gaps
?
? Qy 60 MVIYRHOTLKPTNYVLFSLAVSDLLVLLGMPLEYEMHWNYPFLFGPVGVCKFTALPE 119
? Db 2 LVWSRFREMTTTNLYLSSMAFSDLLIFLC-MPLDLFRLMQYRPMNLGNLLCKLFQVSE 60
?
? Qy 120 TVCFASLTSTVTVSERYVAIVHPHRAKLESTRRRRLRILSLVMSFVSFSLPNTSIHGI 179
? Db 61 SCYATVLTITALSVEFYPAICEPLRAKVVTGKRVKLVILVIAVAFCSAGDIFVLGV 120
?
? Qy 180 KQHFPNGSSVPGSATCTVTK-----PMVVNLIQATSFYFLPMTLISLVYY 229
? Db 121 EHD----NGTDPDRTNECRATEFAVRSGLLTVMVWV-----SSVFFFLPVFCLTVLS 169
?
? Qy 230 LMGLRLRKDESLGANKVAVNIHRPSKSVTKMLFVLVLVFAICWTFFHVDRLFFS-FVEE 298
? Db 170 LIGKLRWRKRGGA-AVGSSLRQNHQTVKMLAVVVFILCNLFPFHGRYLFSKSLP 228
?
? Qy 289 WTSLAAVFNLIHWGVGFYFLSSAVNPYINLLSRFRAA 329
? Db 229 GSVEIAQISQYCNLVSFVFLYLSAAINPILYNIMSKYRVA 269

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DEC 11 1964

US-09-077-675A-7
; Sequence 7, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:

APPLICANT: Pai, Lee-Yuh
APPLICANT: Feigner, Scott C.
APPLICANT: Howard, Andrew D.
APPLICANT: Pong, Sheng-Shung
APPLICANT: Van Der Ploeg, Leonardus H.T.
TITLE OF INVENTION: RECEPTOR ASSAY
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: P.O. Box 2000, 126 E. Lincoln Ave.
CITY: Rahway
STATE: NJ
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/077,675A
FILING DATE: 3-JUN-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cocuzzo, Anna L.
REGISTRATION NUMBER: 42,452
REFERENCE/DOCKET NUMBER: 19590P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 732-594-1273
TELEFAX: 732-594-4720
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 302 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-077-675A-7

Query Match 20.3%; Score 421.5; DB 4; Length 302;
Best Local Similarity 34.5%; Pred. No. 2,3e-27;
Matches 98; Conservative 62; Mismatches 99; Indels 25; Gaps 7;

QY 60 MVIYRQTLKTPNYYLFSFLAVSDLLVLLGMPLEIEMMHNVPFLGPGVCYKTLALFE 119
DB 2 LVVSRFRELTTNLYSSMAFSDDLIFLC-MPLDLVRLMQRPMNFGDLCKLFOVSE 60
QY 120 TVCFASILSTVTSVERVVAIVHPFRAKLBSTRRRRLRLISLWVSFSVPSLPTSIGHI 179
DB 61 SCYVATVLTITLALSVRYPAICFLRAKVVYTKGRVTLVFIWVAVFCGAPFVLGV 120
QY 180 KQHPFNGSSVPGSATC-----TVTKPMVNYLLIQATSFLLYIIPMLISLYY 229
DB 121 EHE---NGTDPMDTNECRPTTEFAVRSGILVTVMVW-----SSIFFLPVFLTLVLS 169
QY 230 LMGRLRLKRDLSLANKVAVINHRSRKSVTKMLFVLVLVFAICWTPPHVRLPFS-EVEE 288
DB 170 LIRKRLRRRRGDA-VVGASLRDQNHQYVLMVAVFAFLCWLPHVGRYLFSSKFEF 228
QY 289 WTESLAAVFNLIHVGSGVFYLSAVNPPIIYNLSRRFR-AAFR 331
DB 229 GSLEIAIOISQCNLYSVFLVFLSAINPILYNMSKRYRAVFR 272

RESULT 15
US-08-288-663A-1
Sequence 1, Application US/08288663A
Patent No. 5879896
GENERAL INFORMATION:

APPLICANT: HINUMA, Shuji
APPLICANT: HOSOYA, Masaki
APPLICANT: ONDA, Haruo
TITLE OF INVENTION: HUMAN TRH RECEPTOR, ITS PRODUCTION
TITLE OF INVENTION: AND USE
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSMAN, LLP
STREET: 130 Water Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/288,663A
FILING DATE: 09-AUG-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 198309/1993
FILING DATE: 10-AUG-1993
APPLICATION NUMBER: 286986/1993
FILING DATE: 16-NOV-1993
APPLICATION NUMBER: 325215/1993
FILING DATE: 22-DEC-1993
ATTORNEY/AGENT INFORMATION:
NAME: Resnick, David S
REGISTRATION NUMBER: 34,235
REFERENCE/DOCKET NUMBER: 44612
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-523-3400
TELEFAX: 617-523-6440
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 398 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-288-663A-1

Query Match 20.0%; Score 416; DB 2; Length 398;
Best Local Similarity 31.5%; Pred. No. 8,7e-27;
Matches 114; Conservative 66; Mismatches 120; Indels 62; Gaps 11;

QY 33 RSLDISPVSAVALITLV-----GWMGNLVCMYIVHQTLPNTNYLFSFLAVSDLLVL 88
DB 17 RAVVALEYQVTLTLVLIIIGLDIIVGNIMVVLVMTKMKRPTNYLSLAVADLMVLV 76
QY 89 -LGMPL---EYEMMHNVPFLGPGVCYKTLALFEVCFASILSTVTSVERVVAIVHP 144
DB 77 AGLPNTDSIYSW-----VGYVCLCTIYIQYGINASSSTIAFTIERIALCHPI 131
QY 145 RAKLBSTRRRRLRLISLWVSFSVPSLPTSIGHIKQHPNGSSVPGSATCTVTKPMV 204
DB 132 KAQFLCTFSRAKKIIFVNAFTSLYCMWFLLDLNISTYKDAIVI-----SCGYKISRY 187
QY 205 YNLIQATSLFLITLPMTLISVYIYLMGRL-----KQDESLANKVAV 248
DB 188 YSDIYLMDFGVFVVMILATVLYGFIARILFLNPISDPKENSKTWKDSTQNTNLV 247
QY 249 NIHR-----PERSKVTQMLFVLVLPVPAICWTPFH---VDRLPFS--FVEEWTESLA 296
DB 248 WTSNRCPNSTVSRKQVTKMLAVVTLFADLMVRYTLVAVNSFLSSPQENM----- 300
QY 297 FNLIHVGSGVFYLSAVNPPIIYNLSRRFRAFRNVVSPCTCKMCHRRPOGPPAKII 356
DB 301 ---FLFCHRICIYLNAINPVIYNLMSQKFRFAFR-----KLCNCKQKPTFKPANYSV 350

Qy 357 PL 358
Db 351 AL 352

Search completed: November 29, 2002, 11:42:00
Job time : 13.679 secs

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GenCore version 5.1.3
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OM protein - protein search, using sw model

Run on: November 29, 2002, 11:40:52 ; Search time 13.321 Seconds
(without alignments)
916.637 Million cell updates/sec

Title: US-09-609-146-4

Perfect score: 2185

Sequence: 1 MSGMEKLNQASWVYQKLED.....ALSSEQMSRTNYQSFHNKT 415

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA.*
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6: /cgn2_6/ptodata/1/iaa/backfiles.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2162	98.9	415	4	US-09-545-944-2
2	448	20.5	353	4	US-09-077-675A-3
3	444	20.3	361	4	US-09-077-675A-8
4	444	20.3	366	4	US-09-077-675A-13
5	436.5	20.0	364	4	US-09-077-675A-16
6	417.5	19.1	353	1	US-08-118-270-45
7	417.5	19.1	353	5	PCT-US93-08528-45
8	410	18.8	416	3	US-08-858-876A-4
9	410	18.8	416	4	US-09-472-880-4
10	405.5	18.6	398	2	US-08-288-663A-1
11	402	18.4	302	4	US-09-077-675A-2
12	398	18.2	302	4	US-09-077-675A-7
13	398	18.2	410	3	US-08-858-876A-2
14	398	18.2	410	4	US-09-472-880-2
15	397	18.2	393	1	US-07-629-1041-3
16	389	17.8	410	4	US-09-200-090-2
17	377.5	17.3	398	2	US-08-288-663A-15
18	365	16.7	369	1	US-07-816-283-6
19	365	16.7	369	1	US-08-417-103-6
20	365	16.7	369	1	US-08-417-103-16
21	364.5	16.7	391	4	US-09-200-090-4
22	358	16.4	369	2	US-08-411-859-3
23	358	16.4	369	4	US-08-387-707-9
24	358	16.4	369	4	US-08-405-271A-9
25	358	16.4	400	4	US-09-351-198-2
26	358	16.4	400	4	US-09-113-426-2
27	358	16.4	415	4	US-08-405-271A-20

28	357	16.3	400	4	US-08-188-275A-2	Sequence 2, Appli
29	356.5	16.3	319	3	US-08-832-399-2	Sequence 2, Appli
30	356.5	16.3	319	4	US-09-372-498-2	Sequence 2, Appli
31	356.5	16.3	352	4	US-09-029-027B-2	Sequence 2, Appli
32	356	16.3	369	4	US-08-120-601B-9	Sequence 9, Appli
33	355	16.2	400	3	US-08-889-108-8	Sequence 8, Appli
34	355	16.2	400	5	PCT-US94-10358-8	Sequence 8, Appli
35	353.5	16.2	394	4	US-08-405-271A-22	Sequence 22, Appli
36	352.5	16.1	380	3	US-08-676-351-5	Sequence 5, Appli
37	352.5	16.1	380	4	US-08-188-275A-5	Sequence 5, Appli
38	352.5	16.1	380	4	US-09-351-198-5	Sequence 5, Appli
39	352.5	16.1	380	4	US-09-113-426-5	Sequence 5, Appli
40	351	16.1	384	3	US-09-071-434-3	Sequence 3, Appli
41	351	16.1	389	4	US-08-430-286A-7	Sequence 7, Appli
42	350.5	16.0	376	4	US-08-387-707-17	Sequence 17, Appli
43	350.5	16.0	376	4	US-08-405-271A-17	Sequence 17, Appli
44	350.5	16.0	380	4	US-08-765-743-2	Sequence 2, Appli
45	349	16.0	369	1	US-07-816-283-8	Sequence 8, Appli

ALIGNMENTS

RESULT 1

US-09-545-944-2
; Sequence 2, Application US/09545944
; Patent No. 6461836
; GENERAL INFORMATION:
; APPLICANT: AMES, ROBERT
; APPLICANT: ELSHOURBAGY, NABIL
; APPLICANT: MICHALOVICH, DAVID
; APPLICANT: SARAU, HENRY
; APPLICANT: SHABON, USMAN
; APPLICANT: VAWTER, LISA
; TITLE OF INVENTION: MOLECULAR CLONING OF A 7TM RECEPTOR
; FILE REFERENCE: (AXOR34)
; CURRENT APPLICATION NUMBER: US/09/545,944
; CURRENT FILING DATE: 2000-04-10
; PRIOR APPLICATION NUMBER: US 09/435,384
; PRIOR FILING DATE: 1999-11-05
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 415
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
US-09-545-944-2

Query Match 98.9%; Score 2162; DB 4; Length 415;

Best Local Similarity 99.0%; Pred. No. 5.7e-195;

Matches 411; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

Qy 1 MSGMEKLNQASWVYQKLEDPFQKHLNSTEYLAFLCGPRRSHFPLPVSVVYVPIFVGV 60

Db 1 MSGMEKLNQASWVYQKLEDPFQKHLNSTEYLAFLCGPRRSHFPLPVSVVYVPIFVGV 60

Qy 61 IGNVLCVLVILOHQAMKTPNTNYLFSLSAVSDLLVLLGMPLEVMENYBFLGPGVCY 120

Db 61 IGNVLCVLVILOHQAMKTPNTNYLFSLSAVSDLLVLLGMPLEVMENYBFLGPGVCY 120

Qy 121 FKTLFETVCFASILSITTSVRYVAILHFRKALQSTRRALRILGIVMGFSVLSLP 180

Db 121 FKTLFETVCFASILSITTSVRYVAILHFRKALQSTRRALRILGIVMGFSVLSLP 180

Qy 181 NTSINGIKHFYPNGSLVPGSATCTVIKPMWIYNFIIQVTSFLFYLLPMTVISLVYLMA 240

Db 181 NTSINGIKHFYPNGSLVPGSATCTVIKPMWIYNFIIQVTSFLFYLLPMTVISLVYLMA 240

Qy 241 LRLKKDKSLEADENQANTQRCRKSVNKMFLVLVLFVFAICWAPHIDRLPFSFVSEWSES 300

Db 241 LRLKKDKSLEADENQANTQRCRKSVNKMFLVLVLFVFAICWAPHIDRLPFSFVSEWSES 300

QY 301 LAAVFNLVHVSGVFYFLSSAVNPITLNLRRPQAFQNVISFPHKQMSHDPOLPPA 360
DB 301 LAAVFNLVHVSGVFYFLSSAVNPITLNLRRPQAFQNVISFPHKQMSHDPOLPPA 360
QY 361 QRNIFTECHFEVLTEIDIGPQPCOSSMHNHSLPTALSSBQMSRTNYOSFHFNKT 415
DB 361 QRNIFTECHFEVLTEIDIGPQPCOSSMHNHSLPTALSSBQMSRTNYOSFHFNKT 415

RESULT 2
US-09-077-675A-3
Sequence 3. Application US/09077675A
Patent No. 6242199

GENERAL INFORMATION:
APPLICANT: Pai, Lee-Yuh
APPLICANT: Feighner, Scott C.
APPLICANT: Howard, Andrew D.
APPLICANT: Pong, Sheng-Shung
APPLICANT: Van Der Ploeg, Leonardus H.T.
TITLE OF INVENTION: RECEPTOR ASSAY
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: P.O. Box 2000, 126 E. Lincoln Ave.
CITY: Rahway
STATE: NJ
COUNTRY: USA
ZIP: 07065-0900

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/077, 675A
FILING DATE: 3-JUN-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:

ATTORNEY/AGENT INFORMATION:
FILING DATE:
NAME: Cocuzzo, Anna L.
REGISTRATION NUMBER: 42,452
REFERENCE/DOCKET NUMBER: 19590P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 732-594-1273
TELEFAX: 732-594-4720
TELEX:

INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 353 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-077-675A-3

Query Match 20.5%; Score 448; DB 4; Length 353;
Best Local Similarity 34.3%; Pred. No. 3, 1e-34;
Matches 104; Conservative 68; Mismatches 103; Indels 28; Gaps 7;

QY 48 VSVVYVPIFVGVIGVNLVCLVLIQHOAKMPTNYVLFSLAVSDLLVLLGMPLEYEMW 107
DB 33 VTATCVALLFVVGAGNLCTLKFQVSSSCYATVLTITLALSVRYFALCPFLAKVVTGKRVKVI 151
QY 108 RNPFLGPGVGYFKTALFETVCFASLSTTTVSVERYVAIILHPRAKLQSTRRALRIL 167
DB 92 QYRPMWGNLCTLKFQVSSSCYATVLTITLALSVRYFALCPFLAKVVTGKRVKVI 151
QY 168 GIWGFVLSLPTSLPTSHGKIFHYFPNGS-----LVGSACTVVIKEMWYNF 215
DB 152 LVIMAVAFCSAGPIFVLVGE---HDNGTDPRDINECRATEFANRSGLLTYM--VWV--- 203

QY 216 IIVQTSFLPYLLPMTVIVSVLYLMLRLKDKDSLDEAGNANIORPCRKSVNKMFLVLT 275
DB 204 -----SSVFPLPVCLITVLYSLIGRKLMRRKGEAAVC-SSLROONKQTYKMAVVF 257
QY 276 VPAICWAPHIDRLPES-FVEEMSESLAVFNLVHVSGVFYFLSSAVNPITLNLRRP 334
DB 258 AFLICVLPFHVGRYLPESKSLPGSVIEIAQISQCNLVSFVLFLSMAINPILYNIMSKKY 317

QY 335 QAA 337
DB 318 RVA 320

RESULT 3
US-09-077-675A-8
Sequence 8. Application US/09077675A
Patent No. 6242199

GENERAL INFORMATION:
APPLICANT: Pai, Lee-Yuh
APPLICANT: Feighner, Scott C.
APPLICANT: Howard, Andrew D.
APPLICANT: Pong, Sheng-Shung
APPLICANT: Van Der Ploeg, Leonardus H.T.
TITLE OF INVENTION: RECEPTOR ASSAY
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: P.O. Box 2000, 126 E. Lincoln Ave.
CITY: Rahway
STATE: NJ
COUNTRY: USA
ZIP: 07065-0900

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/077, 675A
FILING DATE: 3-JUN-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:

ATTORNEY/AGENT INFORMATION:
FILING DATE:
NAME: Cocuzzo, Anna L.
REGISTRATION NUMBER: 42,452
REFERENCE/DOCKET NUMBER: 19590P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 732-594-1273
TELEFAX: 732-594-4720
TELEX:

INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 361 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-09-077-675A-8

Query Match 20.3%; Score 444; DB 4; Length 361;
Best Local Similarity 34.0%; Pred. No. 7, 5e-34;
Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;

QY 48 VSVVYVPIFVGVIGVNLVCLVLIQHOAKMPTNYVLFSLAVSDLLVLLGMPLEYEMW 107
DB 41 VTATCVALLFVVGAGNLCTLKFQVSSSCYATVLTITLALSVRYFALCPFLAKVVTGKRVKVI 99
QY 108 RNPFLGPGVGYFKTALFETVCFASLSTTTVSVERYVAIILHPRAKLQSTRRALRIL 167
DB 100 QYRPMWGNLCTLKFQVSSSCYATVLTITLALSVRYFALCPFLAKVVTGKRVKVI 159

Qy 168 GIVMGFVLSPLNPTSINHGIKPHYFPNGS-----LVPGSATCTVIKPMWIYNF 215
Db 160 FVIWAVAFCSAGPIFVLGVGEHE---NGTDPMDTNECRPTFAVRSGLLTVN--VWV--- 211
Qy 216 IIQVTSFLFLLPMTVISVLYLMLRLKKDKSLEADBNANIQRPCRKSNNKMLFVLVL 275
Db 212 -----SSIFFPLPVCLTVLSLIGRLWRRRRGDVVG-ASLRDQNHKQTVKMLAVVVF 265
Qy 276 VFAICWAPFHIDRLFFS-FVEEMSSLAAVNHLVHVGVFFYLSAVNPPIYNLLSRF 334
Db 266 AFILCWLPHFVGRYLFKSPFPGSLTAQISQYCNLVSFLVFLYLSAAINPILYNIMSKY 325
Qy 335 QAA 337
Db 326 RVA 328

RESULT 4
US-09-077-675A-13
; Sequence 13, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077,675A
; FILING DATE: 3-JUN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 366 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-13

Query Match 20.3%; Score 444; DB 4; Length 366;
Best Local Similarity 34.0%; Pred. No. 7.6e-34;
Matches 103; Conservative 68; Mismatches 104; Indels 28; Gaps 7;

Qy 48 VSWVYPIFVGVIGNVLCVLILQHQAKTPTNYLFSLAVSDLLVLLGMPLEVYEW 107
Db 46 VTATCVALFVVGVIAGNLLTMLVSVRFREURTTNLYLSSMAFSDLLIFLC-MPLDLVRLW 104

Qy 108 RNYPLRGPVGYEKTALFETVCFASILSTTVSVRYVAILHPRAKLOSTRRALRIL 167
Db 105 QYRPNWFGDLDLKLQFVSESCYATVLTITLSVRYFAICFFLRKVVVTKGRVKLVI 164
Qy 168 GIVMGFVLSPLNPTSINHGIKPHYFPNGS-----LVPGSATCTVIKPMWIYNF 215
Db 165 FVIWAVAFCSAGPIFVLGVGEHE---NGTDPMDTNECRPTFAVRSGLLTVN--VWV--- 216
Qy 216 IIQVTSFLFLLPMTVISVLYLMLRLKKDKSLEADBNANIQRPCRKSNNKMLFVLVL 275
Db 217 -----SSIFFPLPVCLTVLSLIGRLWRRRRGDVVG-ASLRDQNHKQTVKMLAVVVF 270
Qy 276 VFAICWAPFHIDRLFFS-FVEEMSSLAAVNHLVHVGVFFYLSAVNPPIYNLLSRF 334
Db 271 AFILCWLPHFVGRYLFKSPFPGSLTAQISQYCNLVSFLVFLYLSAAINPILYNIMSKY 330
Qy 335 QAA 337
Db 331 RVA 333

RESULT 5
US-09-077-675A-16
; Sequence 16, Application US/09077675A
; Patent No. 6242199
; GENERAL INFORMATION:
; APPLICANT: Pai, Lee-Yuh
; APPLICANT: Feighner, Scott C.
; APPLICANT: Howard, Andrew D.
; APPLICANT: Pong, Sheng-Shung
; APPLICANT: Van Der Ploeg, Leonardus H.T.
; TITLE OF INVENTION: RECEPTOR ASSAY
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: P.O. Box 2000, 126 E. Lincoln Ave.
; CITY: Rahway
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/077,675A
; FILING DATE: 3-JUN-1998
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cocuzzo, Anna L.
; REGISTRATION NUMBER: 42,452
; REFERENCE/DOCKET NUMBER: 19590P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-1273
; TELEFAX: 732-594-4720
; TELEX:
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 364 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-077-675A-16

Query Match 20.0%; Score 436.5; DB 4; Length 364;
Best Local Similarity 34.0%; Pred. No. 3.8e-33;
Matches 103; Conservative 68; Mismatches 103; Indels 29; Gaps 8;

[illegible]

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1      RESULT 10
2      US-08-288-663A-1
3      Sequence 1, Application US/08288663A
4      Patent No. 5879896
5      GENERAL INFORMATION:
6      APPLICANT: HINUMA, Shuji
7      APPLICANT: HOSOMA, Masaki
8      APPLICANT: ONDA, Haruo
9      TITLE OF INVENTION: HUMAN TRH RECEPTOR, ITS PRODUCTION
10     TITLE OF INVENTION: AND USE
11     NUMBER OF SEQUENCES: 15
12     CORRESPONDENCE ADDRESS:
13     ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSMAN, LLP
14     STREET: 130 Water Street
15     CITY: Boston
16     STATE: MA
17     COUNTRY: USA
18     ZIP: 02109
19     COMPUTER READABLE FORM:
20     MEDIUM TYPE: Diskette
21     COMPUTER: IBM Compatible
22     OPERATING SYSTEM: DOS
23     SOFTWARE: FASTSEQ for Windows Version 2.0
24     CURRENT APPLICATION DATA:
25     APPLICATION NUMBER: US/08/288,663A
26     FILING DATE: 09-AUG-1994
27     CLASSIFICATION: 435
28     PRIOR APPLICATION DATA:
29     APPLICATION NUMBER: 198309/1993
30     FILING DATE: 10-AUG-1993
31     APPLICATION NUMBER: 286986/1993
32     FILING DATE: 16-NOV-1993
33     APPLICATION NUMBER: 325215/1993
34     FILING DATE: 22-DEC-1993
35     ATTORNEY/AGENT INFORMATION:
36     NAME: Resnick, David S
37     REGISTRATION NUMBER: 34,235
38     REFERENCE/DOCKET NUMBER: 44612
39     TELECOMMUNICATION INFORMATION:
40     TELEPHONE: 617-523-3400
41     TELEFAX: 617-523-6440
42     TELEX:
43     INFORMATION FOR SEQ ID NO: 1:
44     SEQUENCE CHARACTERISTICS:
45     LENGTH: 398 amino acids
46     TYPE: amino acid
47     TOPOLOGY: linear
48     MOLECULE TYPE: protein
49     US-08-288-663A-1

```

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Best Local Similarity 29.9%; Pred. No. 3.56-30;
Matches 119; Conservative 72; Mismatches 130; Indels 77; Gaps 14;
Qy 48 VSVVYPIFV-VGVIQNVCLVILIQHQAKMPTNNYVLSLAVDLLV-LGMP-L--E 102
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 27 VTILVLIIICGLIGVIGNIMVLVVMRTGKMTPTNCYLVSLAVDLMLVLAAGLPNTDS 86
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Qy 103 VYEMKRNPTLEGPVGCYFKTALFETVCFASILSTTVSERYVALIHPFAKLOSTRR 162
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 87 IYGSW-----YGVVGCCICTYLYQYLGINASSCSSTAFETIRYIAICHPHIAQFLCTFSR 141
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Qy 163 ALRIIGIYWGFSYVFSLEPNTSIHGKIKPHYFNGSLVPSATC-----TVIKPMIYNYFI 216
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 142 AKIIIFPMATSLYCMIMFLLDINISTYKDAIVI---SCGKISNNYSPILYMDFG 197
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Qy 217 IQVTSFLFYLLPMYIVSVLYIYLMALRL-----KKOKSLEADEGNANIOR 260
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 198 V-----FYVPMILATYLYGFIARILFLNIPSDPKENSKTWKNDSTHQNTNLNVNTSN 251
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Qy 261 PC-----RKSVMKMLFVLVLVPAICMAPRH---IDRLFFS-FVEWSESLAIVNLV 308
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 252 RCFNSTVSSRRQVOTMLAVVILFALLMMPRTLVVNVNSFLSPQENW-----F 301
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Qy 309 HAVSGVFYLSAYNPITYNLISRRFOAFQONVSSFFKQKHSOHDPOLPRAQNIIFLT- 367
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 302 LLFCRICIYLSAINPVIYNLMISOQFRAAFKLCNCOK-----PYEKPAIVSVALNY 354
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Qy 368 -----ECGFVELTEDIGQPFQCOGSMNHSHPFLALSE 400
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 355 SVIKESDHFSTELDDITVTDITYLSATKVSFPDTCCLASE 392
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|

```

```

1      RESULT 11
2      US-09-077-675A-2
3      : Sequence 2, Application US/09077675A
4      : Patent No. 6242159
5      : GENERAL INFORMATION:
6      : APPLICANT: Pal, Lee-Yuh
7      : APPLICANT: Faigner, Scott C.
8      : APPLICANT: Howard, Andrew D.
9      : APPLICANT: Pong, Sheng-Shung
10     : APPLICANT: Van Der Ploeg, Leonardus H.T.
11     : TITLE OF INVENTION: RECEPTOR ASSAY
12     : NUMBER OF SEQUENCES: 16
13     : CORRESPONDENCE ADDRESSES:
14     : ADDRESSEE: Merck & Co., Inc.
15     : STREET: P.O. Box 2000, 126 E. Lincoln Ave
16     : CITY: Rahway
17     : STATE: NJ
18     : COUNTRY: USA
19     : ZIP: 07065-0900
20     : COMPUTER READABLE FORM:
21     : MEDIUM TYPE: Diskette
22     : COMPUTER: IBM Compatible
23     : OPERATING SYSTEM: DOS
24     : SOFTWARE: FASTSEQ for Windows Version 2.0
25     : CURRENT APPLICATION DATA:
26     : APPLICATION NUMBER: US/09/077,675A
27     : FILING DATE: 3-JUN-1998
28     : CLASSIFICATION:
29     : PRIOR APPLICATION DATA:
30     : APPLICATION NUMBER:
31     : FILING DATE:
32     : ATTORNEY/AGENT INFORMATION:
33     : NAME: Cocuzzo, Anna L.
34     : REGISTRATION NUMBER: 42,452
35     : REFERENCE/DOCKET NUMBER: 19590P
36     : TELECOMMUNICATION INFORMATION:
37     : TELEPHONE: 732-594-1273
38     : TELEFAX: 732-594-4720
39     : TELEX:
40     : INFORMATION FOR SEQ ID NO: 2:
41     : SEQUENCE CHARACTERISTICS:

```



```
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-07-629-1041-3

Query Match      18.2%; Score 397; DB 1; Length 393;
Best Local Similarity 28.6%; Pred. No. 2.1e-29;
Matches 110; Conservative 72; Mismatches 104; Indels 98; Gaps 15;

Qy 18 LDDPQKHUNSTE-----EY-----LAFLCGPRRSHFFLPVSVVYVPIFWVGVI 61
Db 1 MENDTVSEMNQTELOPQAAVALEYQVVTILLVVIICG-----LGIV 41

Qy 62 GNVLCVLILQHQAKTPTNYVLFSLAUSDLLVLL-LGMPL---EYEMWRNYPPLFGPV 117
Db 42 GNMVVLVVMRTKMRTPNTCYLVSLAVADLMVLVAAGLPNITDSIYGSW-----VYGV 96

Qy 118 GCYFKTALFETVCFASIISITTVSVRYVAILHPFRAKLQSTRRALRILGIVMGFSVLF 177
Db 97 GCLCITYLQYLGINASSCSITAFITERYIAICHPIKAQFLCTFSRAKKIIFVWAFISIY 156

Qy 178 SLPNTSIHGIIKHPNGSLVPGSATC-----TWIKPMIYNFIQVTSFLFYLLPMTV 231
Db 157 CMLWFFLLDLNISTYKNVAVV---SCGYKISRNYVSPYIYLMDFGV-----FYVVPML 206

Qy 232 ISVLYYLMN-----LRLKKDKSLEADeg-NANIQRPC-----RKSUNK 268
Db 207 ATVLYGFIARILFLNPISDPDKENSKMKMKNDSIHQNKNLNLNATNRCFNSTVSSRKQVTK 266

Qy 269 MLFVLVLVFAICWAPPH---IDRLFFS--FVEWSESAAAVFNLVHVVGVPFFYLSSAVN 323
Db 267 MLAVVVLFPALLMMPYRTLVVNSFLSSPFQENW-----FLLFCRICIYLNAIN 316

Qy 324 PIYNLLSRRFOAFQNVISSPHK 347
Db 317 PVYINLMSOKFRAFRKLCNCKQK 340
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Search completed: November 29, 2002, 11:41:59
Job time : 15.321 secs

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